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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	12
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Complete if Known

Application Number	10/520,104
Filing Date	January 3, 2005
First Named Inventor	Henry Daniell
Art Unit	1635
Examiner Name	Kubelik
Attorney Docket Number	10669-040

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
		WO99/10513	03-04-1999	Daniell, H.		

Examiner Signature	/Anne Kubelik/	Date Considered	09/24/2008
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NON PATENT LITERATURE DOCUMENTS				
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	R1	ABKEVICH, V. et al. "What can disulfide bonds tell us about protein energetics, function and folding: simulations and bioninformatics analysis" Journal of Molecular Biology, 2000, pp. 975-985, Vol 300. No.4.		
	R2	ARAKAWA, T. et al. "Expression of cholera toxin B subunit oligomers in transgenic potato plants" Transgenic Research, 1997, pp. 403-413, Vol. 6, No. 6.		
	R3	BARON, S. et al. "The interferons, Mechanisms of action and clinical applicaitons" JAMA, 1991, pp. 1375-1383, Vol. 266. No. 10.		
	R4	BENDICH, A. J. et al. "Why do chloroplasts and mitochondria contain so many copies of their genome?" BioEssays, June 1987, pp. 279-282, Vol. 6, No. 6.		
	R5	BHOJWANI, S. et al. Plant tissue Culture: Application and Limitations, 1990, Elsevier, Amsterdam, The Netherlands.		
	R6	BOGORAD, L. "Engineering chloroplasts: an alternatice site for foreign genes, proteins, reactions and products" Trends Biotechnol.; 2000, pp. 257-263, Vol. 18, No. 6.		
	R7	BOVOLENTA, C. et al. "Molecular Interactions Between Interferon Consensus Sequence Binding Protein and Members of the Interferon Regulatory Factor Family, PNAS, 1994, pp. 5046-5050, Vol. 91, No. 11.		
	R8	BRADFORD, M. "A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding" Analytical Biochemistry, 1976, pp. 248-254. Vol. 72, No. 1-2.		
	R9	BRAUN, A. et al. "Protein Agreegates Seem to Play a Key Role Among the Parameters Influecing the Antigenicity of Interferon Alphas (IFN-) in Normal and Transgenic Mice" Pharmaceutical Research, 1997, pp. 1472-1478, Vol. 14, No. 10.		

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	R10	BRIXEY, M. et al. "The Chloroplast psbA promoter is more efficient in Escherichia coli than the T7 promoter for hyperexpression of a foreign protein" Biotechnology Letters, 1997, pp. 395-400. Vol. 19, No. 4.		
	R11	BRUICK, R. et al. "Light-activated translation of chloroplast mRNAs" Trends in Plant Science, 1999, pp. 190-195, Vol. 4, No. 5.		
	R12	CARLSON, P. S. et al. "The use of protoplasts for genetic research" PNAS, 1973, 598-602, Vol. 70, No. 2.		
	R13	CASTELRUIZ, Y. et al. Hepatology, 1999, pp. 1900-1904.		
	R14	COLAMONICI, O. et al. "Characterization of three monoclonal antibodies that recognize the interferon 2 receptor" PNAS, 1990, pp. 7230-7234, Vol. 87, No. 18.		
	R15	COOK, J. et al. "Differential responsiveness of a splice variant of the human type I interferon receptor to interferons" J. Biol. Chem., 1996, pp. 13448-13453, Vol. 271, No. 23.		
	R16	COWLEY, D. et al. "Expression, purification and characterization of recombinant human proinsulin" FEBS Letters, 1997, pp. 124-130, Vol. 402, No. 2-3.		
	R17	CRAMER, C. et al. "Transgenic plants for therapeutic proteins: linking upstream and downstream strategies" Current Topics Microbiol. Immunol., 1999, pp. 95-118, Vol. 240.		
	R18	CROSS, J. et al. "Constitutive and trophoblast-specific expression of a class of bovine interferon genes" PNAS, 1991, pp. 3817-3821, Vol. 88, No. 9.		

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	R19	CROSSIN, K. et al. "Evidence that microtubule depolymerization early in the cell cycle is sufficient to initiate DNA synthesis" Cell, 1981, pp. 61-71, Vol. 23, No. 1.		
	R20	Daniell, H. et al. "Chloroplast culture. IX. Chlorophyll(ide) a biosynthesis in vitro rates higher than in vivo" Biochem. Biophys. Res. Commun., May 31, 1982, pp. 466-470. Vol. 106, No.2.		
	R21	Daniell, H. et al. "Uptake and expression of bacterial and cyanobacterial genes by isolated cucumber etioplasts" Proc. Natl. Acad. Sci. USA, September 1987, pp. 6349-6353, Vol. 84.		
	R22	Daniell, H. et al. "Transient foreign gene expression in chloroplasts of cultured tobacco cells after biolistic delivery of chloroplast vectors" Proc. Natl. Acad. Sci. USA, January 1990, pp.88-92, Vol. 87, No.1.		
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	R24	Daniell, H. et al. "Foreign gene expression in chloroplasts of higher plants mediated by tungsten particle bombardment" Methods Enzymol., 1993, pp. 536-556, Vol. 217.		
	R25	Daniell, H. et al. "Transformation and foreign gene expression in plants by microprojectile bombardment" Methods Mol. Biol., 1997, pp. 463-489, Vol. 62.		
	R26	Daniell, H. et al. "Containment of herbicide resistance through genetic engineering of the chloroplast genome" Nature Biotechnology, April 1998, pp. 345-348, Vol. 16, No. 4.		
	R27	ZHOU, M. et al. "Universal TA cloning" Curr. Issues Mol. Biol., 2000, pp. 1-7, Vol. 2, No. 1.		

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	R28	DANIELL, H. et al. "Medical molecular farming: production of antibodies, biopharmaceuticals and edible vaccines in plants" Trends in Plant Science, may 2001, pp. 219-226, Vol. 6, No. 5.		
	R29	DANIELL, H. et al. "Expression of the Native Cholera Toxin B Subunit Gene and Assembly as Functional Oligomers in Transgenic Tobacco Chloroplasts" Journal of Mol. Biol., 2001 pp. 1001-1009, Vol. 311.		
	R30	DANIELLI, H. et al. "Marker free transgenic plants: engineering the chloroplast genome without the use of antibiotic selection" Curr. Genet., 2001, pp. 109-116, Vol. 39.		
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	R32	DANIELL, H. et al. "Molecular strategies for gene containment in transgenic crops" Nature Biotechnology, 2002, pp. 581-586, Vol. 20.		
	R33	DANON, A. "Translational regulation in the chloroplast" Plant Physiol., 1997, pp. 1293-1298, Vol. 115, No. 4.		
	R34	DE COSA, B. et al. "Overexpression of the Bt cry2 Aa2 operon in chloroplasts leads to formation of insecticidal crystals" Nature Biotechnology, January 2001, pp. 71-74, Vol. 19.		
	R35	DE GRAY, G. et al. "Expression of an Antimicrobial Peptide via the Chloroplast Genome to Control Phytopathogenic Bacteria and Fungi" Plant Physiology, November 2001, pp. 852-862, Vol. 127.		
	R36	DER, S. et al. "Involvement of the double-stranded-RNA-dependent kinase PKR in interferon expression and interferon-mediated antiviral activity" PNAS, 1995, pp. 8841-8845, Vol. 92, No. 19.		

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	R37	DIMMOCK, N. et al. "The immune system and interferon" Introduction to Modern Virology, Fourth Edition, 1994, pp. 205-213.		
	R38	EDWARDS, K. et al. "A simple and rapid method for the preparation of plant genomic DNA for PCR analysis" Nucleic Acids Research, January 2, 1991, pp. 1349, Vol. 19, No. 6.		
	R39	EIBL, C. et al. "In vivo analysis of plastid psbA, rbcL and rp/32 UTR elements by chloroplast transformation: tobacco plastid gene expression is controlled by modulation of transcript levels and translation efficiency", Plant, 1999, pp. 333-345, Vol. 19.		
	R40	EDERBAUM, O. et al. "Expression of active human interferon beta in transgenic plants" J Interferon Res, 1992, pp. 449-453, Vol. 12.		
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	R42	FERNANDEZ-SAN MILLAN, A. et al. "A chloroplast transgenic approach to hyper-express and purify human serum albumin, a protein highly susceptible to proteolytic degradation" Plant Biotechnol J, 2003.		
	R43	GERACE, L. "Cell biology: Traffic control and structural proteins in the eukaryotic nucleus" Nature, 1985, pp. 508-509, Vol. 318, No. 6046.		
	R44	GLICK, B. et al. Molecular Biotechnology: Principles and Applications of Recombinant DNA, 2d edition, 1998, ASM press, Washington, D.C.		
	R45	GOMEX-ORELLANA, et al. "Advances in the oral delivery of proteins" Exp. Opin. Ther. Patents, 1998, pp. 223-234, Vol. 8, no. 3.		

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	R46	GUDA, C., et al. "Stable expression of a biodegradable protein-based polymer in tobacco chloroplasts", Plant Cell Report, 2000, pp. 257-262, Vol. 19.		
	R47	GUTTERMAN, J. et al. "Cytokine therapeutics: lessons from interferon" PNAS, 1994, pp. 1198-1205, Vol. 91, No. 4.		
	R48	RUF, S. et al. "Stable genetic transformation of tomato plastids: high level foreign protein expression in fruits" Nature Biotechnology 2001, pp. 870-875, Vol. 19.		
	R49	HAQ, T. A. et al. "Oral immunization with a recombinant bacterial antigen produced in transgenic plants" Science, May 5, 1995, pp. 714-716, Vol. 268, No. 5211.		
	R50	HAJDUKIEWICZ, P. et al. "The two RNA polymerases encoded by the nuclear and the plastid compartments transcribe distinct groups of genes in tobacco plastids" EMBO J., 1997, pp. 4041-4048, cl. 16, No. 13.		
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	R52	HEIFETZ, P. et al. "Protein expression in plastids" Current Opinion in Plant Biology, 2001, pp. 157-161, Vol. 4, No. 2.		
	R53	HENCO, K. et al. "Structural relationship of human interferon alpha genes and pseudogenes" Journal of Molecular Biology, 1985 pp. 227-260, Vol. 185, No. 2.		
	R54	ISAACS, A. et al. "Virus interference. I. the interferon" Proceedings of the Royal Society of London. Series B, Biological Sciences, September 1957, pp. 258-267, Vol. 147, No. 927.		

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	R55	KAVANAGH, T. et al. "Homologous plastid DNA transformation in tobacco is mediated by multiple recombination events" Genetics, 1999, pp. 1111-1122, Vol. 152, No. 3.	
	R56	KIM, J. et al. "Protein disulfide isomerase as a regulator of chloroplast translational activation" Science, December 1997, pp. 1954-1957, Vol. 278.	
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	R63	MALIGA, P. "Towards plastid transformation in flowering plants" TIBTECH, 1993, pp. 101-106, Vol. 11, No.3.	

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		Application Number	10/520,104		
		Filing Date	January 3, 2005		
		First Named Inventor	Henry Daniell		
		Art Unit	1635		
		Examiner Name	Kubelik		
Sheet	9	of	12	Attorney Docket Number	10669-040

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	R64	MARTIN, W. et al. "Gene transfer from organelles to the nucleus: how much, what happens, and why?" Plant Physiol., 1998, pp. 9-17, Vol. 118, No. 1.	
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	R76	RUBINSTEIN, M. et al. "The interferon receptors" CRC Crit Rev Biochem., 1986, pp. 249-277, Vol. 21.	
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	R80	STAUB, J. M. "Accumulation of D1 polypeptide in tobacco plastid is regulated via the untranslated region of the psbA mRNA", EMBO J., 1993, pp. 601-606, Vol. 12, No. 2.	
	R81	STAUB, J. M. et al. "High-Yield production of a human therapeutic protein in tobacco chloroplasts" Nature Biotechnology, March 2000, pp. 333-338, Vol. 18, No. 3.	

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	R88	WILSON, V. et al. "A comparison of vertebrate interferon gene families detected by hybridization with human interferon DNA" Journal of Molecular Biology, 1983, pp. 457-475, Vol. 166.	
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	R90	Yu, J. et al. "A plant-based multicomponent vaccine protects mice from enteric diseases" Nature Biotechnology, June 2001, pp. 548-552, Vol. 19.	

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